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Date: 7/16/2018 5:08:46 PM

Subject: Deschutes Planning

Attachments: Draft Technical Direction - Deschutes TMDLs\_7-17-19\_notes frm 7-26 mtg.docx

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Hello – Tetra Tech is currently working on the TD revisions and getting us an estimate of cost and timeline, so for now I'm attaching the draft TD for your reference. I think we still have enough to go off of for our discussion today. Thanks, and see you soon!

Miranda

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Hi everyone,

I'm hoping by this time, we'll have an idea of the schedule/timeline for the development of the Deschutes TMDLs. Please hold this time, and I'll reschedule if needed. This meeting will be to strategize for the EPA-developed Deschutes TMDLs, clarify roles/responsibilities, and discuss how we want to work with Ecology and stakeholders (we've already gotten a couple of inquiries).

Proposed topics:

1. How engaged do we want to be with the community/stakeholder group? Is it worth getting a community relations person involved?
2. How should we engage with Ecology in the process?
3. Discuss roles/responsibilities

**Technical Direction (TD)**

TSWAP Contract  
EP-C-17-046  
Task Order 1

**PWS Task(s):** Task 2, TMDL Development  
Task 7, Model Application

**Title:** *Water Quality Modeling and TMDL Development for the Deschutes River, Percival Creek and Budd Inlet Tributaries*

**Date of Technical Direction Discussion or Issuance:** July 2018

**Estimated Level of Effort:** XX hours

**Purpose:** Provide technical and modeling support for the revision of state-developed TMDLs for multiple parameters in the Deschutes River.

**Background, Tasks, Deliverables and Schedule:**

***Background***

There is currently a multi-phase process to address water quality impairments for waters flowing into South Puget Sound. The Deschutes River originates in heavily forested regions of the Bald Hills and flows northward to Capitol Lake, which then flows to Budd Inlet, which connects to Puget Sound. Capitol Lake was formed in 1951 as an impoundment of the Deschutes estuary to create a reflecting pool for the State Capitol building. The Washington Department of Ecology ('Ecology') developed the Deschutes TMDL to address the riverine segments upstream of Capitol Lake and Budd Inlet. The watershed covered in the Deschutes TMDL includes the Deschutes River, Percival Creek, and tributaries to Budd Inlet. It is situated within the boundaries of Thurston and Lewis Counties in Washington and includes the cities or towns of Olympia, Lacey, Tumwater, and Rainier. The TMDL was written to address impairments for bacteria, temperature, dissolved oxygen (DO), pH, and fine sediment. Ecology submitted the TMDL to EPA in 2015, and provided supplemental information in 2017.

EPA took a partial approval and partial disapproval action on the TMDL (comprised of 73 unique waterbody-pollutant pairs) on June 29, 2018. The disapproved portions, listed below, will need to be revised and established by EPA, including the 14 waterbody-pollutant pairs which need to go through public participation.

- Bacteria – 17 pairs (14 of which only need to go through public participation process)
- Temperature – 5 pairs
- DO – 11 pairs
- pH – 3 pairs
- Fine sediment – 1 pair

In this technical direction, the Contractor will provide technical support on revising the TMDLs listed above. Ecology is currently developing a TMDL for Budd Inlet. (b) (5)

[Redacted text block]

## **Phase 1**

### **Tasks**

1. The Contractor will set up two initial planning conference calls. The first conference call will include representatives from EPA (see “Contacts” section below) and the Contractor to discuss the project background, scope, goals, schedule, and projected outcomes and outputs. The goal of the first call will be to provide the Contractor with enough information for the Task Order Contract Officer Representative (TOCOR) to finalize the technical direction and begin working on the tasks outlined in this technical direction. The second planning call will include representatives from EPA, Ecology, and the Contractor. The TOCOR will provide the participant list, along with their contact information for this call. The purpose of this call will be to learn from Ecology about their work on the Budd Inlet TMDL, and identify any areas of concern or overlap that we should be aware of during the development of the Deschutes TMDL. Both of these calls will establish a schedule for regular check-in calls with two teams: (1) EPA and the Contractor; and (2) EPA, Ecology, and the Contractor. All contact information is listed below. The Contractor will put together notes from the call summarizing key points, outcomes, and action items.
2. The Contractor will set up regular check-in calls, as described in Task #1. The frequency of the calls will be determined during the initial planning calls. The purpose of the calls with EPA and Ecology will be to check-in on concurrent progress being made on the modeling for the Budd Inlet TMDL and the Deschutes TMDL, share input/output files and model results, and resolve any technical concerns. Assume quarterly (3-4) calls with Ecology. The check-in calls with EPA (up to 8) will be to discuss draft products, have more in-depth discussions on areas needing more focus, and resolve technical concerns. The Contractor will put together notes from each call summarizing key points, outcomes, and action items.
3. The Contractor will set up a file transfer site for participants to upload data and information. (Look into what EPA can host – EPA to set up OneDrive?)
4. The Contractor will develop a draft TMDL technical approach memorandum. It will include a summary of relevant data and information and recommended approach(s) to revise the existing QUAL2k model and how those data will be used in the updates to the models. The memorandum should provide recommendations regarding the cost and value of updating the model, based on the TMDL revision needs. It should also include the approach that will be used to revise the disapproved segments of the TMDL (i.e. how the loading capacity and wasteload and load allocations will be determined). The Contractor will address a maximum of one set of comments and finalize the technical approach memorandum.
5. The Contractor will develop a Quality Assurance Project Plan (QAPP) for the water quality modeling work. Depending on the data needs determined during or after the development of the technical approach memorandum, the Contractor may also need to develop a QAPP for data collection. The Contractor will address a maximum of one set of comments on each QAPP and finalize the QAPP(s).

## **Phase 2 (tentative) – move to appendix of TD and get ballpark estimates right now**

6. Based on the process outlined in the technical memorandum, the Contractor will use the existing base steady-state QUAL2k model (already calibrated) as a starting point for developing new TMDL

(b) (5)

[illegible]

(b) (5) [REDACTED]

[REDACTED]  
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[REDACTED]  
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there was TMDL information missing. (b) (5)

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***Deliverables and Schedule***

(b) (5)

Task	Deliverable
1 & 2. Kick-off conference call and check-in calls	Call notes summarizing key points, outcomes, and action items
3. File transfer site	A site that can be viewed and used by EPA, Ecology, and the Contactor to share files.
4. Technical approach memorandum	Draft and final technical approach memorandum, including a tracked version to show how comments were addressed.
5. QAPP for modeling; QAPP for data collection (optional)	Draft and final QAPP(s), including a tracked version to show how comments were addressed.
6. QUAL2k modeling	Summary of updated model results and outputs as an appendix to TMDL document.
7. TMDL report	Revised TMDL document, including two drafts and one final, with tracked versions to show how comments were addressed. Response to comments document, as an appendix to the TMDL document.

As the EPA Task Order Contract Officer Representative (TOCOR), I have considered the sensitivity of any information generated by this TD. The following applies:

[X] I have no reason to believe that any sensitive information will be generated as part of this TD  
[ ] I have reason to believe that sensitive information will be generated as part of this TD. The following safeguard measures shall be implemented: N/A

[X] This TD does not include additional work outside the scope of the task order.

**Contact Information:**

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